



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**REGION 10**  
1200 Sixth Avenue, Suite 900  
Seattle, Washington 98101-3140

May 3, 2012

**MEMORANDUM**

**TO:** Tristen Gardner, Inspector  
Office of Enforcement and Compliance  
Pesticides and Toxics Unit

**FROM:** Brent Richmond, Credentialed Compliance Sampler  
Office of Environmental Assessment  
Environmental Services Unit

**SUBJECT:** Case Narrative for Field Technical Support – Rainier Commons

**Project Code:** HWD-208A  
**Account Code:** 20122013B10P501E50

**Introduction**

This memorandum documents sampling conducted by EPA staff at Rainier Commons, 3100 Airport Way South, Seattle WA, on April 13, 2012. Sampling was done by Brent Richmond with support from Jennifer Crawford, Dave Bartus and Tristen Gardner. The sampling was done according to the Generic PCB quality assurance project plan (QAPP) with a TSCA PCB Site-Specific Inspection Plan approved by Don Matheny, QA Chemist.

**Sampling Procedure**

A total of twenty one samples were collected, one of which was a PCB equipment wipe, nine were water/liquid samples, and 11 were Sediment/Bulk samples. The samples were collected by various methods depending on the density of the sediment and the sample matrix (solid/liquid).

The water/liquid samples were collected from totes labeled T-01 to T-07 and one 55 gallon drum with a new/clean composite liquid sampler (COLIWASA). Samples were placed in clean QC class 500 milliliter (ml) glass containers to composite each sample. Each tote contained various levels of sediment and head space. Two to four dips of the COLIWASA were needed to obtain enough liquid. The composites were then quickly mixed and poured off into two clean QC class 40 ml vials.

Sediment sampling of totes T-01 to T-07 was done with a plastic bailer with the top end cut off. The totes with enough sediment to stick the bailer into the sediment and extract sample material were done in this fashion. The totes with light sediment were vacuumed using a bailer with a

hand vacuum pump attached. In each case, a new bailer was used for each individual tote. The samples were placed directly from the bailer into a clean QC class 500 ml amber jar.

Heavy material in the Clean Harbors red steel “sweepings” totes, serial numbers 10413 and 10416, were either scooped out using a stainless steel scoop on a pole (10413) or with a core sampler (10416). For each a 3x3 grid pattern was used to composite the sample in a stainless steel bowl. Tote 10416 only 6 of the 9 discrete sites were obtained due to trash and the mounding of the sweepings in the tote. Each discrete sample from the grid was placed into a clean stainless steel bowl to composite. After thoroughly mixing, the sample was placed into clean 4 ounce QC class jars.

QA/QC for the sampling event included: a field duplicate on T-05 water, a PCB wipe on sediment scoops and cores used for sampling sweepings totes, a field duplicate of the sweepings tote 10413, an extra volume for lab MS/MSD analysis was taken on T-07 liquid sample, and a field duplicate on T-01 for sediment. EPA staff also provided split samples for Rainier Commons environmental representative.

A copy of the chain of custody is included in Attachment 1(pg 3-4). A copy of the quality certification from the sample container manufacturer is included in Attachment 2 (pg 5-9). The samples were placed in a cooler with wet ice and transported under chain of custody to the EPA Region 10 Laboratory on April 13, 2012. Field logbook and original chain of custody forms will be mailed to Tristen Gardner for the case file.

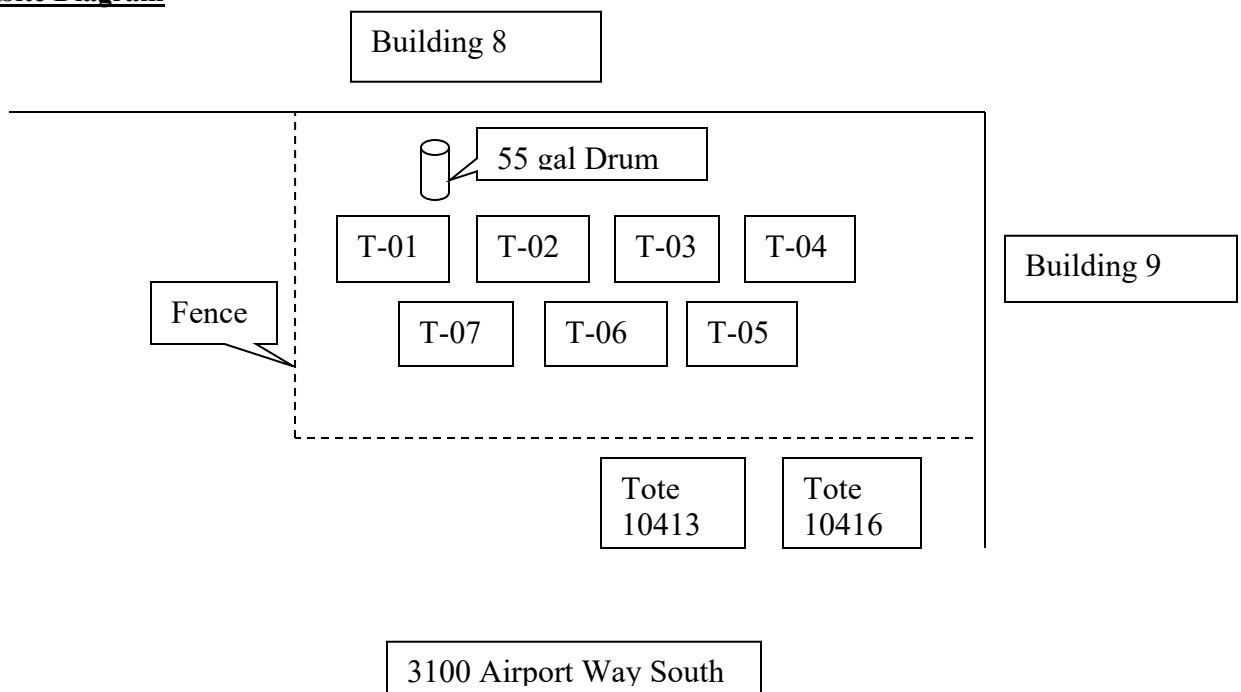
### **Field Analysis**

No field analysis was performed.

### **Photo Log**

No photos by sampler. Inspector took all pictures.

### **Site Diagram**



[illegible]

May contain elevated Pb

## Attachment 2

40 ml Amber VOA

# QUALITY CERTIFIED™

## Certificate of Compliance

The enclosed containers have been chemically cleaned by using the specified USEPA cleaning procedures for low level chemical analysis. Representative containers have been tested by independent certified laboratories for their appropriate use. ESS containers meet and exceed the required detection limits established by the USEPA in SPECIFICATIONS AND GUIDANCE FOR CONTAMINANT-FREE SAMPLE CONTAINERS (OSWER Directive #9240.0-05A).

### EXTRACTABLE ORGANIC COMPOUNDS (PROCEDURE 1)

Analyte	Quantitation Limit (ug/l)	Alpha-Chlorozone	<0.005	4-Methylphenol	<1	2-Nitroaniline	<1	Anthracene	<0.1
		Gamma-Chlorozone	<0.005	N-Nitrosodimethylamine	<1	Dimethylphthalate	<1	Di-n-Butylphthalate	<0.2
		Toxaphene	<0.005	Hexachlorocyclopentadiene	<1	Acenaphthylene	<0.2	Fluoranthene	<0.1
<b>PESTICIDES/PCB'S</b>									
Alpha-BHC	<0.005	Aroclor 1016	<0.2	Nitrobenzene	<1	2,4-Dinitrotoluene	<1	Pyrene	<0.15
Beta-BHC	<0.005	Aroclor 1221	<0.2	Isophorone	<1	2-Nitroaniline	<1	Butylbenzylphthalate	<1
Delta-BHC	<0.005	Aroclor 1232	<0.2	2-Nitrophenol	<1	Acenaphthene	<0.2	1,2-Dichlorobenzene	<1
Gamma-BHC (Lindane)	<0.005	Aroclor 1242	<0.2	2,6-Dimethylphenol	<1	2,4-Dinitrophenol	<0.5	1,3-Dichlorobenzene	<1
Heptachlor	<0.005	Aroclor 1248	<0.2	Bis(2-Chloroethoxy)methane	<1	4-Nitrophenol	<0.5	1,4-Dichlorobenzene	<1
Alkins	<0.005	Aroclor 1254	<0.2	2,4-Dichlorophenol	<1	Dibenzofuran	<1	2,3-Dichlorobenzidine	<1
Heptachlor Epoxide	<0.005	Aroclor 1260	<0.2	1,2,4-Trichlorobenzene	<1	2,4-Dinitrotoluene	<1	Benzofluoranthene	<0.15
Endosulfan I	<0.005	Aroclor 1262	<0.2	Naphthalene	<0.2	Diethylphthalate	<1	Chrysene	<0.1
Dieldrin	<0.005	Aroclor 1268	<0.2	4-Chloroaniline	<1	4-Chlorophenyl Phenyl ether	<1	Bis(2-Ethylhexyl) Phthalate	<1
4,4'-DDE	<0.005			Hexachlorobutadiene	<1	Fluorene	<0.15	Di-n-Octylphthalate	<1
Endrin	<0.005			4-Chloro-3-Methylphenol	<1	4-Nitroaniline	<1.5	Benzofluoranthene	<0.2
Endosulfan II	<0.005	Phenol	<1	2-Methylnaphthalene	<0.2	4,6-Dichloro-2-Methylphenol	<1	Benzofluoranthene	<0.15
4,4'-DDD	<0.005	Bis(12-Chloroethyl) ether	<1	Hexachlorocyclopentadiene	<1	N-Nitrosodimethylamine	<1	Benzofluoranthene	<0.15
Endosulfan Sulfate	<0.005	Bis(12-Chloroisopropyl) ether	<1	2,4,5-Trichlorophenol	<1	N-Nitrosodimethylamine	<1	Isodurene(1,2,3-trimethyl)	<0.2
4,4'-DDT	<0.005	2-Chlorophenol	<1	2,4,5-Trichlorophenol	<1	4-Bromophenyl Phenyl ether	<1	Dibenzofluoranthene	<0.15
Methoxychlor	<0.005	2-Methylphenol	<1	1,2-Diphenylhydrazine	<1	Hexachlorobenzene	<1	Benzofluoranthene	<0.15
Endrin Ketone	<0.005	2,2'-Dyckile	<1	Carbazole	<1	Pentachlorophenol	<1	Benzoic Acid	<0.5
Endrin Aldehyde	<0.005	(1-Chloropropene)	<1	2-Chloronaphthalene	<0.15	Phenanthrene	<0.2	Benzyl Alcohol	<1

### PURGEABLE VOLATILE ORGANIC COMPOUNDS (PROCEDURE 2)

Analyte	Quantitation Limit (ug/l)	Chlorobenzene	<0.5	1,1-Dichloroethane	<0.5	4-Isopropyltoluene	<0.5	Trichlorofluoromethane	<0.5
Acetone	<0.5	Chlorobenzene	<0.5	1,2-Dichloroethane	<0.5	Methylene Chloride	<0.2	1,2,3-Trichloropropane	<0.5
Benzene	<0.5	Chlorobenzene	<0.5	1,1-Dichloroethane	<0.5	Naphtalene	<0.5	1,2,3-Trinitrobenzene	<0.5
Bromobenzene	<0.5	2-Chlorotoluene	<0.5	cis-1,2-Dichloroethane	<0.5	Propylbenzene	<0.5	1,2,4-Trinitrobenzene	<0.5
Bromochloromethane	<0.5	4-Chlorotoluene	<0.5	trans-1,2-Dichloroethane	<0.5	Styrene	<0.5	1,3,5-Trinitrobenzene	<0.5
Bromodichloromethane	<0.5	2,4-Dichlorotoluene	<0.5	1,2-Dichloropropane	<0.5	1,1,1,2-Tetrachloroethane	<0.5	Vinyl Acetate	<1
Bromomethane	<0.5	Chlorobenzene	<0.5	1,3-Dichloropropane	<0.5	1,1,2,2-Tetrachloroethane	<0.5	Vinyl Chloride	<0.5
o-Dichlorobenzene	<0.5	Dibromomethane	<0.5	2,2-Dichloropropane	<0.5	Tetrachloroethane	<0.5	Methyl-Tert-Butyl Ether	<0.15
m-Dichlorobenzene	<0.5	1,2-Dichloropropane	<0.5	1,1-Dichloropropane	<0.5	Toluene	<0.5	4-Methyl-2-pentanone	<1
p-Dichlorobenzene	<0.5	1,2-Dichloropropane	<0.5	trans-1,2-Dichloropropane	<0.5	1,2,3-Trichlorobenzene	<0.5	ethyl-tert-butyl ether	<0.15
tert-Butylbenzene	<0.5	1,2-Dichloropropane (IDG)	<0.5	trans-1,2-Dichloropropane	<0.5	1,2,4-Trichlorobenzene	<0.5	tert-octylmethyl ether	<0.15
tert-Butylbenzene	<0.5	1,3-Dichlorobenzene	<0.5	Ethylbenzene	<0.5	1,1,1-Trichloroethane	<0.5	dichlorophthalate	<0.15
Carbon Tetrachloride	<0.5	1,3-Dichlorobenzene	<0.5	2-Hexanone	<1	1,1,2-Trichloroethane	<0.5	tert-butanol	<0.15
Carbon Disulfide	<0.5	1,4-Dichlorobenzene	<0.5	Hexachlorobutadiene	<0.5	Trichloroethane	<0.5	o-xylene	<0.5
		Dichlorodifluoromethane	<0.5	Isopropylbenzene	<0.5	Trichlorofluoromethane	<0.5	m-xylene(1)	<0.5
								propylal(1)	<0.5

### METALS, CYANIDE & SULFIDE COMPOUNDS (PROCEDURE 3)

Analyte	Detection Limit (ug/l)	Beryllium	<0.01	Iron	<2	Nickel	<0.05	Vanadium	<1
Aluminum	<0.5	Cadmium	<0.03	Lead	<0.05	Potassium	<50	Zinc	<0.3
Antimony	<0.03	Calcium	<50	Magnesium	<4	Selenium	<0.5	Cyanide	<5
Arsenic	<0.01	Chromium	<0.06	Manganese	<0.1	Silver	<0.02	Fluoride	<100
Barium	<0.03	Cobalt	<0.25	Mercury	<0.2	Sodium	<6	Nitrate + Nitrite	<30
		Copper	<0.08	Molybdenum	<0.5	Thallium	<0.09		



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*Matthew Macy*  
Matthew Macy, Vice President ESS, Inc.

16 oz Amber Wide Mouth Jar

# QUALITY CERTIFIED™ Certificate of Compliance

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## EXTRACTABLE ORGANIC COMPOUNDS (PROCEDURE 1)

Analyte	Quantitation Limit (ug/L)	Alpha-Chlorozone	<0.005	4-Methylphenol	<1	2-Nitroaniline	<1	Anthracene	<0.1
		Gamma-Chlorozone	<0.005	N-Nitroso-d-n-propylamine	<1	Dimethylphthalate	<1	Di-n-butylphthalate	<0.2
<b>PESTICIDES/PCB'S</b>		Toxaphene	<0.005	Heachlorobenzene	<1	Acenaphthylene	<0.2	Fluoranthene	<0.1
Alpha BHC	<0.005	Aroclor 1016	<0.2	Nitrobenzene	<1	2,4-Dinitrotoluene	<1	Pyrene	<0.15
Beta BHC	<0.005	Aroclor 1221	<0.2	Isophorone	<1	3-Nitroaniline	<1	8-ethylanthracene	<1
Delta BHC	<0.005	Aroclor 1232	<0.2	2-Nitrophenol	<1	Acenaphthene	<0.2	1,2-Dichlorobenzene	<1
Gamma BHC (Lindane)	<0.005	Aroclor 1242	<0.2	2,4-Dinitrophenol	<1	2,4-Dinitrophenol	<1	1,3-Dichlorobenzene	<1
Heptachlor	<0.005	Aroclor 1248	<0.2	bis-(2-Chloroethoxy) methane	<1	4-Nitrophenol	<5	1,4-Dichlorobenzene	<1
Aldrin	<0.005	Aroclor 1254	<0.2	2,4-Dichlorophenol	<1	Dibenzofuran	<1	2,3-Dichlorobenzidine	<1
Heptachlor Epoxide	<0.005	Aroclor 1260	<0.2	1,2,4-Trichlorobenzene	<1	2,4-Dinitrobenzene	<1	Benzofuran	<0.15
Endosulfan I	<0.005	Aroclor 1262	<0.2	Naphthalene	<0.2	Diethylphthalate	<1	Chrysene	<0.1
Dieldrin	<0.005	Aroclor 1268	<0.2	4-Chloroaniline	<1	bis-(2-Ethoxyethyl) Phthalate	<1	Di-n-Propylphthalate	<1
4,4'-DDE	<0.005			Heachlorobutadiene	<1	Fluorene	<0.15	Di-n-Propylphthalate	<1
Dieldrin	<0.005	<b>SEMI-VOLATILES</b>		4-Chloro-3-Methylphenol	<1	4-Nitroaniline	<0.5	Benzofuran	<0.2
Endosulfan II	<0.005	Phenol	<1	2-Methylthiophene	<0.2	4,6-Dinitro-2-Methylphenol	<1	Benzofuran	<0.15
4,4'-DDD	<0.005	bis-(2-Chloroethyl) ether	<1	Heachlorocyclopentadiene	<1	N-Nitrosodimethylamine	<1	Benzofuran	<0.15
Endosulfan Sulfate	<0.005	bis-(2-Chloropropyl) ether	<1	2,4,6-Trichlorophenol	<1	N-Nitrosodimethylamine	<1	Indene(1,2,3-c)pyrene	<0.2
4,4'-DDT	<0.005	2-Chlorophenol	<1	2,4,6-Trichlorophenol	<1	4-Bromophenyl-Phenyl ether	<1	Dibenzofuran	<0.15
Heptachlor	<0.005	2-Methylphenol	<1	1,2-Diphenylpropane	<1	Heachlorobenzene	<1	Benzo(a,h)pyrene	<0.15
Endrin Ketone	<0.005	2,2'-Oxybis	<1	2-Chlorocyclopentadiene	<0.15	Phenanthrene	<0.2	Benzo(a)pyrene	<0.15
Endrin Aldehyde	<0.005	(1-Chloropropene)	<1					Benzyl Alcohol	<1

## PURGEABLE VOLATILE ORGANIC COMPOUNDS (PROCEDURE 2)

Analyte	Quantitation Limit (ug/L)	Chlorobenzene	<0.1	1,1-Dichloroethane	<0.1	4-Propoxytoluene	<0.1	Trichlorofluoroethane	<0.1
		Chloroethane	<0.1	1,2-Dichloroethane	<0.1	Methylene Chloride	<0.5	1,2,3-Trichloropropane	<0.1
Acetone	<0.2	Chloroform	<0.1 <th>1,1-Dichloroethene</th> <th>&lt;0.1</th> <th>Naphthalene</th> <th>&lt;0.5</th> <th>1,2,3-Trichlorobenzene</th> <th>&lt;0.1</th>	1,1-Dichloroethene	<0.1	Naphthalene	<0.5	1,2,3-Trichlorobenzene	<0.1
Benzene	<0.1	2-Chlorotoluene	<0.1	cis-1,2-Dichloroethene	<0.1	Propylbenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
Bromoforn	<0.1	4-Chlorotoluene	<0.1	trans-1,2-Dichloroethene	<0.1	Styrene	<0.1	1,2,5-Trichlorobenzene	<0.1
Bromobenzene	<0.1	2,4-Chlorotoluene	<0.2	1,3-Dichloropropane	<0.1	1,1,1,2-Tetrachloroethane	<0.1	Vinyl Acetate	<0.5
Bromo-chloroethane	<0.1	Chlorobenzene	<0.1	1,3-Dichloropropane	<0.1	1,1,2,2-Tetrachloroethane	<0.1	Vinyl Chloride	<0.1
Bromo-chloroethane	<0.1	Dibromochloroethane	<0.1	2,2-Dichloropropane	<0.1	Tetrachloroethane	<0.1	Methyl tert-butyl Ether	<0.1
Bromobenzene	<0.1	1,2-Dibromo-3-Chloropropane	<0.1	1,1-Dichloropropane	<0.1	Toluene	<0.1	4-Methyl-2-pentanone	<0.5
z-Butylbenzene	<0.1	Dibromochloroethane	<0.1	cis-1,3-Dichloropropane	<0.1	1,2,3-Trichlorobenzene	<0.1	ethyl-tert-butyl ether	<0.1
n-Butylbenzene	<0.1	1,2-Dibromochloroethane (E2R)	<0.1	trans-1,3-Dichloropropane	<0.1	1,2,4-Trichlorobenzene	<0.1	tert-butyl methyl ether	<0.1
iso-Butylbenzene	<0.1	1,3-Dichlorobenzene	<0.1	Ethylbenzene	<0.1	1,1,2-Trichloroethane	<0.1	diisopropyl ether	<0.1
tert-butylbenzene	<0.1	1,3-Dichlorobenzene	<0.1	2-Hexanone	<0.5	1,1,2-Trichloroethane	<0.1	tert-butanol	<0.1
Carbon tetrachloride	<0.1	1,4-Dichlorobenzene	<0.1	Heachlorobutadiene	<0.1	Trichloroethene	<0.1	n-pentane	<0.1
Carbon Disulfide	<0.1	Dichlorodifluoroethane	<0.1	Isopropylbenzene	<0.1	Trichlorofluoroethane	<0.1	n-pentane(1)	<0.2
								p-pentane(1)	<0.2

## METALS, CYANIDE & SULFIDE COMPOUNDS (PROCEDURE 3)

Analyte	Detection Limit (ug/L)	Beryllium	<0.01	Iron	<0.3	Nickel	<0.05	Vanadium	<1
		Cadmium	<0.03	Lead	<0.05	Potassium	<90	Zinc	<0.3
Aluminum	<0.5	Calcium	<50	Magnesium	<4	Selenium	<0.5	Cyanide	<5
Antimony	<0.03	Chromium	<0.06	Manganese	<0.1	Silver	<0.02	Fluoride	<100
Arsenic	<0.01	Cobalt	<0.25	Mercury	<0.2	Sodium	<6	Nitrate + Nitrite	<50
Barium	<0.03	Copper	<0.06	Molybdenum	<0.5	Thallium	<0.09		

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*Matthew Macy*  
Matthew Macy, Vice President ESS, Inc.

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Analyte	Quantitation limit (µg/g)	Alpha-Chlorozone	<0.005	4-Methylphenol	<1	2-Nitroaniline	<1	Anthrone	<0.1
<b>PESTICIDES/PCB's</b>		Gamma Chlorozone <th>&lt;0.005</th> <th>N-Nitroso-D-n-propylamine</th> <th>&lt;1</th> <th>Dinaphthalhydrylate</th> <th>&lt;1</th> <th>15-methylphthalate</th> <th>&lt;0.1</th>	<0.005	N-Nitroso-D-n-propylamine	<1	Dinaphthalhydrylate	<1	15-methylphthalate	<0.1
Alpha-EHC <th>&lt;0.005</th> <td>Topsoils<th>&lt;0.005</th><td>Hexachlorocyclohexane<th>&lt;1</th><td>Asenaphthalene<th>&lt;0.2</th><td>Fluoranthene<th>&lt;0.1</th></td></td></td></td>	<0.005	Topsoils <th>&lt;0.005</th> <td>Hexachlorocyclohexane<th>&lt;1</th><td>Asenaphthalene<th>&lt;0.2</th><td>Fluoranthene<th>&lt;0.1</th></td></td></td>	<0.005	Hexachlorocyclohexane <th>&lt;1</th> <td>Asenaphthalene<th>&lt;0.2</th><td>Fluoranthene<th>&lt;0.1</th></td></td>	<1	Asenaphthalene <th>&lt;0.2</th> <td>Fluoranthene<th>&lt;0.1</th></td>	<0.2	Fluoranthene <th>&lt;0.1</th>	<0.1
Beta-EHC <th>&lt;0.005</th> <td>Andar-1214<th>&lt;0.1</th><td>4-Nitroaniline<th>&lt;1</th><td>2,6-Dinitroaniline<th>&lt;1</th><td>Pyrene<th>&lt;0.15</th></td></td></td></td>	<0.005	Andar-1214 <th>&lt;0.1</th> <td>4-Nitroaniline<th>&lt;1</th><td>2,6-Dinitroaniline<th>&lt;1</th><td>Pyrene<th>&lt;0.15</th></td></td></td>	<0.1	4-Nitroaniline <th>&lt;1</th> <td>2,6-Dinitroaniline<th>&lt;1</th><td>Pyrene<th>&lt;0.15</th></td></td>	<1	2,6-Dinitroaniline <th>&lt;1</th> <td>Pyrene<th>&lt;0.15</th></td>	<1	Pyrene <th>&lt;0.15</th>	<0.15
Delta-EHC <th>&lt;0.005</th> <td>Andar-1221<th>&lt;0.2</th><td>heptaphene<th>&lt;1</th><td>3-Nitroaniline<th>&lt;1</th><td>Benzo(a)pyrene<th>&lt;0.1</th></td></td></td></td>	<0.005	Andar-1221 <th>&lt;0.2</th> <td>heptaphene<th>&lt;1</th><td>3-Nitroaniline<th>&lt;1</th><td>Benzo(a)pyrene<th>&lt;0.1</th></td></td></td>	<0.2	heptaphene <th>&lt;1</th> <td>3-Nitroaniline<th>&lt;1</th><td>Benzo(a)pyrene<th>&lt;0.1</th></td></td>	<1	3-Nitroaniline <th>&lt;1</th> <td>Benzo(a)pyrene<th>&lt;0.1</th></td>	<1	Benzo(a)pyrene <th>&lt;0.1</th>	<0.1
Gamma-EHC (Eisidine) <th>&lt;0.005</th> <td>Andar-1228<th>&lt;0.2</th><td>2-Nitrophenol<th>&lt;1</th><td>Acenaphthene<th>&lt;0.2</th><td>1,2-Dichlorobenzene<th>&lt;1</th></td></td></td></td>	<0.005	Andar-1228 <th>&lt;0.2</th> <td>2-Nitrophenol<th>&lt;1</th><td>Acenaphthene<th>&lt;0.2</th><td>1,2-Dichlorobenzene<th>&lt;1</th></td></td></td>	<0.2	2-Nitrophenol <th>&lt;1</th> <td>Acenaphthene<th>&lt;0.2</th><td>1,2-Dichlorobenzene<th>&lt;1</th></td></td>	<1	Acenaphthene <th>&lt;0.2</th> <td>1,2-Dichlorobenzene<th>&lt;1</th></td>	<0.2	1,2-Dichlorobenzene <th>&lt;1</th>	<1
Heptachlor <th>&lt;0.005</th> <td>Andar-1242<th>&lt;0.2</th><td>2,4-Dinitrophenol<th>&lt;1</th><td>2,6-Dinitrophenol<th>&lt;1</th><td>1,2-Dichlorobenzene<th>&lt;1</th></td></td></td></td>	<0.005	Andar-1242 <th>&lt;0.2</th> <td>2,4-Dinitrophenol<th>&lt;1</th><td>2,6-Dinitrophenol<th>&lt;1</th><td>1,2-Dichlorobenzene<th>&lt;1</th></td></td></td>	<0.2	2,4-Dinitrophenol <th>&lt;1</th> <td>2,6-Dinitrophenol<th>&lt;1</th><td>1,2-Dichlorobenzene<th>&lt;1</th></td></td>	<1	2,6-Dinitrophenol <th>&lt;1</th> <td>1,2-Dichlorobenzene<th>&lt;1</th></td>	<1	1,2-Dichlorobenzene <th>&lt;1</th>	<1
Aldrin <th>&lt;0.005</th> <td>Andar-1248<th>&lt;0.2</th><td>bis-(2-Chloroethoxy) methane<th>&lt;1</th><td>4-Nitrophenol<th>&lt;1</th><td>1,4-Dichlorobenzene<th>&lt;1</th></td></td></td></td>	<0.005	Andar-1248 <th>&lt;0.2</th> <td>bis-(2-Chloroethoxy) methane<th>&lt;1</th><td>4-Nitrophenol<th>&lt;1</th><td>1,4-Dichlorobenzene<th>&lt;1</th></td></td></td>	<0.2	bis-(2-Chloroethoxy) methane <th>&lt;1</th> <td>4-Nitrophenol<th>&lt;1</th><td>1,4-Dichlorobenzene<th>&lt;1</th></td></td>	<1	4-Nitrophenol <th>&lt;1</th> <td>1,4-Dichlorobenzene<th>&lt;1</th></td>	<1	1,4-Dichlorobenzene <th>&lt;1</th>	<1
Heptachlor Epoxide <th>&lt;0.005</th> <td>Andar-1254<th>&lt;0.2</th><td>2,6-Dichlorophenol<th>&lt;1</th><td>Dibenzoxazole<th>&lt;1</th><td>3,3'-Dichlorobenzidine<th>&lt;1</th></td></td></td></td>	<0.005	Andar-1254 <th>&lt;0.2</th> <td>2,6-Dichlorophenol<th>&lt;1</th><td>Dibenzoxazole<th>&lt;1</th><td>3,3'-Dichlorobenzidine<th>&lt;1</th></td></td></td>	<0.2	2,6-Dichlorophenol <th>&lt;1</th> <td>Dibenzoxazole<th>&lt;1</th><td>3,3'-Dichlorobenzidine<th>&lt;1</th></td></td>	<1	Dibenzoxazole <th>&lt;1</th> <td>3,3'-Dichlorobenzidine<th>&lt;1</th></td>	<1	3,3'-Dichlorobenzidine <th>&lt;1</th>	<1
Bifenthrin I <th>&lt;0.005</th> <td>Andar-1260<th>&lt;0.2</th><td>1,2,4-Trichlorobenzene<th>&lt;1</th><td>2,4-Dinitrobenzene<th>&lt;1</th><td>Benzo(a)fluorene<th>&lt;0.15</th></td></td></td></td>	<0.005	Andar-1260 <th>&lt;0.2</th> <td>1,2,4-Trichlorobenzene<th>&lt;1</th><td>2,4-Dinitrobenzene<th>&lt;1</th><td>Benzo(a)fluorene<th>&lt;0.15</th></td></td></td>	<0.2	1,2,4-Trichlorobenzene <th>&lt;1</th> <td>2,4-Dinitrobenzene<th>&lt;1</th><td>Benzo(a)fluorene<th>&lt;0.15</th></td></td>	<1	2,4-Dinitrobenzene <th>&lt;1</th> <td>Benzo(a)fluorene<th>&lt;0.15</th></td>	<1	Benzo(a)fluorene <th>&lt;0.15</th>	<0.15
Dieldrin <th>&lt;0.005</th> <td>Andar-1262<th>&lt;0.2</th><td>Naphthalene<th>&lt;0.2</th><td>Dinaphthalene<th>&lt;1</th><td>Oxylene<th>&lt;0.1</th></td></td></td></td>	<0.005	Andar-1262 <th>&lt;0.2</th> <td>Naphthalene<th>&lt;0.2</th><td>Dinaphthalene<th>&lt;1</th><td>Oxylene<th>&lt;0.1</th></td></td></td>	<0.2	Naphthalene <th>&lt;0.2</th> <td>Dinaphthalene<th>&lt;1</th><td>Oxylene<th>&lt;0.1</th></td></td>	<0.2	Dinaphthalene <th>&lt;1</th> <td>Oxylene<th>&lt;0.1</th></td>	<1	Oxylene <th>&lt;0.1</th>	<0.1
4,4' DDE <th>&lt;0.005</th> <td>Andar-1268<th>&lt;0.2</th><td>4-Chloroaniline<th>&lt;1</th><td>4-Chlorophenyl Phenylether<th>&lt;1</th><td>bis-(2-Ethylhexyl) Phthalate<th>&lt;1</th></td></td></td></td>	<0.005	Andar-1268 <th>&lt;0.2</th> <td>4-Chloroaniline<th>&lt;1</th><td>4-Chlorophenyl Phenylether<th>&lt;1</th><td>bis-(2-Ethylhexyl) Phthalate<th>&lt;1</th></td></td></td>	<0.2	4-Chloroaniline <th>&lt;1</th> <td>4-Chlorophenyl Phenylether<th>&lt;1</th><td>bis-(2-Ethylhexyl) Phthalate<th>&lt;1</th></td></td>	<1	4-Chlorophenyl Phenylether <th>&lt;1</th> <td>bis-(2-Ethylhexyl) Phthalate<th>&lt;1</th></td>	<1	bis-(2-Ethylhexyl) Phthalate <th>&lt;1</th>	<1
Endrin <th>&lt;0.005</th> <td><td></td><td>Hexachlorobenzene<th>&lt;1</th><td>Rozone<th>&lt;0.15</th><td>Dio-Octylphthalate<th>&lt;1</th></td></td></td></td>	<0.005	<td></td> <td>Hexachlorobenzene<th>&lt;1</th><td>Rozone<th>&lt;0.15</th><td>Dio-Octylphthalate<th>&lt;1</th></td></td></td>		Hexachlorobenzene <th>&lt;1</th> <td>Rozone<th>&lt;0.15</th><td>Dio-Octylphthalate<th>&lt;1</th></td></td>	<1	Rozone <th>&lt;0.15</th> <td>Dio-Octylphthalate<th>&lt;1</th></td>	<0.15	Dio-Octylphthalate <th>&lt;1</th>	<1
Endosulfen I <th>&lt;0.005</th> <td><td></td><td>4-Chloro-3-Methylphenol<th>&lt;1</th><td>4-Chloro-3-methyl<th>&lt;1</th><td>Benzo(b)fluorene<th>&lt;0.15</th></td></td></td></td>	<0.005	<td></td> <td>4-Chloro-3-Methylphenol<th>&lt;1</th><td>4-Chloro-3-methyl<th>&lt;1</th><td>Benzo(b)fluorene<th>&lt;0.15</th></td></td></td>		4-Chloro-3-Methylphenol <th>&lt;1</th> <td>4-Chloro-3-methyl<th>&lt;1</th><td>Benzo(b)fluorene<th>&lt;0.15</th></td></td>	<1	4-Chloro-3-methyl <th>&lt;1</th> <td>Benzo(b)fluorene<th>&lt;0.15</th></td>	<1	Benzo(b)fluorene <th>&lt;0.15</th>	<0.15
4,4' DDD <th>&lt;0.005</th> <td>bis-(2-Chloroethoxy) ether<th>&lt;1</th><td>2-Methylnaphthalene<th>&lt;0.2</th><td>4,4-Dichloro-2-Methylphenol<th>&lt;1</th><td>Benzo(a)fluorene<th>&lt;0.15</th></td></td></td></td>	<0.005	bis-(2-Chloroethoxy) ether <th>&lt;1</th> <td>2-Methylnaphthalene<th>&lt;0.2</th><td>4,4-Dichloro-2-Methylphenol<th>&lt;1</th><td>Benzo(a)fluorene<th>&lt;0.15</th></td></td></td>	<1	2-Methylnaphthalene <th>&lt;0.2</th> <td>4,4-Dichloro-2-Methylphenol<th>&lt;1</th><td>Benzo(a)fluorene<th>&lt;0.15</th></td></td>	<0.2	4,4-Dichloro-2-Methylphenol <th>&lt;1</th> <td>Benzo(a)fluorene<th>&lt;0.15</th></td>	<1	Benzo(a)fluorene <th>&lt;0.15</th>	<0.15
Endosulfen Sulfate <th>&lt;0.005</th> <td>bis-(2-Chloroethoxy) ether<th>&lt;1</th><td>2,4,6-Trichlorophenol<th>&lt;1</th><td>N-Nitrosodiphenylamine<th>&lt;1</th><td>Benzo(b)fluorene<th>&lt;0.15</th></td></td></td></td>	<0.005	bis-(2-Chloroethoxy) ether <th>&lt;1</th> <td>2,4,6-Trichlorophenol<th>&lt;1</th><td>N-Nitrosodiphenylamine<th>&lt;1</th><td>Benzo(b)fluorene<th>&lt;0.15</th></td></td></td>	<1	2,4,6-Trichlorophenol <th>&lt;1</th> <td>N-Nitrosodiphenylamine<th>&lt;1</th><td>Benzo(b)fluorene<th>&lt;0.15</th></td></td>	<1	N-Nitrosodiphenylamine <th>&lt;1</th> <td>Benzo(b)fluorene<th>&lt;0.15</th></td>	<1	Benzo(b)fluorene <th>&lt;0.15</th>	<0.15
4,4' DDT <th>&lt;0.005</th> <td>2-Chlorophenol<th>&lt;1</th><td>2,4,5-Trichlorophenol<th>&lt;1</th><td>N-Nitrosodiphenylamine<th>&lt;1</th><td>Indene(1,2,3-cd)pyrene<th>&lt;0.2</th></td></td></td></td>	<0.005	2-Chlorophenol <th>&lt;1</th> <td>2,4,5-Trichlorophenol<th>&lt;1</th><td>N-Nitrosodiphenylamine<th>&lt;1</th><td>Indene(1,2,3-cd)pyrene<th>&lt;0.2</th></td></td></td>	<1	2,4,5-Trichlorophenol <th>&lt;1</th> <td>N-Nitrosodiphenylamine<th>&lt;1</th><td>Indene(1,2,3-cd)pyrene<th>&lt;0.2</th></td></td>	<1	N-Nitrosodiphenylamine <th>&lt;1</th> <td>Indene(1,2,3-cd)pyrene<th>&lt;0.2</th></td>	<1	Indene(1,2,3-cd)pyrene <th>&lt;0.2</th>	<0.2
Methoxychlor <th>&lt;0.005</th> <td>2-Methylphenol<th>&lt;1</th><td>1,2,4-Trichlorobenzene<th>&lt;1</th><td>4-Nitrophenyl Phenylether<th>&lt;1</th><td>Dibenz(a,h)anthracene<th>&lt;0.15</th></td></td></td></td>	<0.005	2-Methylphenol <th>&lt;1</th> <td>1,2,4-Trichlorobenzene<th>&lt;1</th><td>4-Nitrophenyl Phenylether<th>&lt;1</th><td>Dibenz(a,h)anthracene<th>&lt;0.15</th></td></td></td>	<1	1,2,4-Trichlorobenzene <th>&lt;1</th> <td>4-Nitrophenyl Phenylether<th>&lt;1</th><td>Dibenz(a,h)anthracene<th>&lt;0.15</th></td></td>	<1	4-Nitrophenyl Phenylether <th>&lt;1</th> <td>Dibenz(a,h)anthracene<th>&lt;0.15</th></td>	<1	Dibenz(a,h)anthracene <th>&lt;0.15</th>	<0.15
Endrin Ketone <th>&lt;0.005</th> <td>2,2'-Oxybis<th>&lt;1</th><td>2,4-Dichlorophenol<th>&lt;1</th><td>Hexachlorobenzene<th>&lt;1</th><td>Benzo(g,h,i)perylene<th>&lt;0.15</th></td></td></td></td>	<0.005	2,2'-Oxybis <th>&lt;1</th> <td>2,4-Dichlorophenol<th>&lt;1</th><td>Hexachlorobenzene<th>&lt;1</th><td>Benzo(g,h,i)perylene<th>&lt;0.15</th></td></td></td>	<1	2,4-Dichlorophenol <th>&lt;1</th> <td>Hexachlorobenzene<th>&lt;1</th><td>Benzo(g,h,i)perylene<th>&lt;0.15</th></td></td>	<1	Hexachlorobenzene <th>&lt;1</th> <td>Benzo(g,h,i)perylene<th>&lt;0.15</th></td>	<1	Benzo(g,h,i)perylene <th>&lt;0.15</th>	<0.15
Endrin Aldohyde <th>&lt;0.005</th> <td>(1-Chloropropane)<th>&lt;1</th><td>Carbazole<th>&lt;1</th><td>Pentachlorophenol<th>&lt;1</th><td>Benzoic Acid<th>&lt;0.5</th></td></td></td></td>	<0.005	(1-Chloropropane) <th>&lt;1</th> <td>Carbazole<th>&lt;1</th><td>Pentachlorophenol<th>&lt;1</th><td>Benzoic Acid<th>&lt;0.5</th></td></td></td>	<1	Carbazole <th>&lt;1</th> <td>Pentachlorophenol<th>&lt;1</th><td>Benzoic Acid<th>&lt;0.5</th></td></td>	<1	Pentachlorophenol <th>&lt;1</th> <td>Benzoic Acid<th>&lt;0.5</th></td>	<1	Benzoic Acid <th>&lt;0.5</th>	<0.5
				2-Chloronaphthalene <th>&lt;0.15</th> <td>Phenanthrene<th>&lt;0.2</th><td>Benzyl Alcohol<th>&lt;1</th></td></td>	<0.15	Phenanthrene <th>&lt;0.2</th> <td>Benzyl Alcohol<th>&lt;1</th></td>	<0.2	Benzyl Alcohol <th>&lt;1</th>	<1

Analyte	Quantitation Limit (µg/L)	Chlorobenzene	<0.1	1,1-Dichloroethene	<0.1	4-Propyltoluene	<0.1	Tetrachloroethene	<0.1
Acetone	<0.1	Chlorobenzene	<0.1	1,2-Dichloroethene	<0.1	2-Pyridine Chloride	<0.1	1,2,3-Trichloropropane	<0.1
Benzene	<0.1	Chloroform	<0.1	1,1-Dichloroethene	<0.1	Naphthalene	<0.1	1,2,3-Trichlorobenzene	<0.1
Bromobenzene	<0.1	2-Chlorotoluene	<0.1	cis-1,2-Dichloroethene	<0.1	Propylbenzene	<0.1	1,2,4-Trimethylbenzene	<0.1
Bromobenzene	<0.1	4-Chlorotoluene	<0.1	trans-1,2-Dichloroethene	<0.1	Styrene	<0.1	1,3,5-Trimethylbenzene	<0.1
Bromobenzene	<0.1	2,4-Chlorotoluene	<0.2	1,2-Dichloropropane	<0.1	1,1,1,1-Tetrachloroethene	<0.1	Vinyl Acetate	<0.5
Bromochlorobenzene	<0.1	Chlorobenzene	<0.1	1,2-Dichloropropane	<0.1	1,1,2,2-Tetrachloroethene	<0.1	Vinyl Chloride	<0.1
Bromochlorobenzene	<0.1	Chlorobenzene	<0.1	2,2-Dichloropropane	<0.1	1,1,1,2-Tetrachloroethene	<0.1	2-Methyl-2-pentanol	<0.5
2-Butylbenzene	<0.1	1,2-Dichloro-2-Chloropropane	<0.1	1,1-Dichloropropane	<0.1	Toluene	<0.1	4-Methyl-2-pentanol	<0.5
n-Butylbenzene	<0.1	Dibromochlorobenzene	<0.1	cis-1,3-Dichloropropane	<0.1	1,2,3-Trichlorobenzene	<0.1	allyl-tert-butyl ether	<0.1
sec-Butylbenzene	<0.1	1,2-Dichlorobenzene [EC]	<0.1	trans-1,3-Dichloropropane	<0.1	1,2,4-Trichlorobenzene	<0.1	tert-amylalcohol	<0.1
sec-Butylbenzene	<0.1	1,2-Dichlorobenzene	<0.1	Ethylbenzene	<0.1	1,1,1-Trichloroethene	<0.1	chloropropyl ether	<0.1
tert-Butylbenzene	<0.1	1,2-Dichlorobenzene	<0.1	2-Hexene	<0.5	1,1,2-Trichloroethene	<0.1	tert-butanol	<0.1
Carbon Tetrachloride	<0.1	1,4-Dichlorobenzene	<0.1	Heptachlorobenzene	<0.1	Trichlorobenzene	<0.1	m-xylene	<0.1
Carbon Disulfide	<0.1	Dichlorodibromobenzene	<0.1	Isopropylbenzene	<0.1	Trichlorochlorobenzene	<0.1	p-xylene	<0.2

Analyte	Detection Limit (µg/L)	Beryllium	Iron	Nickel	Vanadium
		<0.01	<0.05	<0.05	<1
		Cadmium	Lead	Perchlorate	Zinc
Aluminum	<0.5	<0.03	<0.05	<0.05	<50
Antimony	<0.01	<0.03	<0.05	<0.05	<50
Arsenic	<0.01	<0.03	<0.05	<0.05	<50
Boron	<0.01	<0.03	<0.05	<0.05	<50
Bromine	<0.01	<0.03	<0.05	<0.05	<50
Copper	<0.01	<0.03	<0.05	<0.05	<50
Chromium	<0.01	<0.03	<0.05	<0.05	<50
Cobalt	<0.01	<0.03	<0.05	<0.05	<50
Fluoride	<0.01	<0.03	<0.05	<0.05	<50
Mercury	<0.01	<0.03	<0.05	<0.05	<50
Manganese	<0.01	<0.03	<0.05	<0.05	<50
Molybdenum	<0.01	<0.03	<0.05	<0.05	<50
Selenium	<0.01	<0.03	<0.05	<0.05	<50
Silver	<0.01	<0.03	<0.05	<0.05	<50
Sodium	<0.01	<0.03	<0.05	<0.05	<50
Sulfate	<0.01	<0.03	<0.05	<0.05	<50
Thallium	<0.01	<0.03	<0.05	<0.05	<50
Titanium	<0.01	<0.03	<0.05	<0.05	<50
Uranium	<0.01	<0.03	<0.05	<0.05	<50
Zinc	<0.01	<0.03	<0.05	<0.05	<50



For more information on our cleaning  
& monitoring procedures, please call  
**1-800-233-8425**

*Matthew Macy*  
Matthew Macy, Vice President ESS Inc.

091910

## 1 Liter Wide Mouth Clear Jar

QC-B-001  
Rev. DEagle-Picher  
Certificate of Analysis

Organic and Inorganic Quality Assurance

For Assistance Call 800-331-7425

Bottle Type &amp; QA Level: F Level 1

Approved: *Therese Weber*

Description: 1 Liter Clear Wide Mouth

Lot No.: J9237010

Eagle-Picher Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in CMAA Directive # 5240.0-85A "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". Eagle-Picher pass/fail criteria considers all significant non-target compounds.

SEMIVOLATILE ANALYTES	(ppb)
Phenol	< 5
bis-(2-Chloroethyl)ether	< 5
2-Chlorophenol	< 5
2-Methylphenol	< 5
2,2'-oxybis (1-Chloropropane)	< 5
4-Methylphenol	< 5
N-Nitroso-di-n-propylamine	< 5
Hexachlorocyclopentadiene	< 5
Nitrobenzene	< 5
Isophorone	< 5
2-Nitrophenol	< 5
2,4-Dimethylphenol	< 5
bis-(2-Chloroethoxy)methane	< 5
2,4-Dichlorophenol	< 5
1,2,4-Trichlorobenzene	< 5
Naphthalene	< 5
4-Chloroaniline	< 5
Hexachlorobutadiene	< 5
4-Chloro-3-methylphenol	< 5
2-Methylnaphthalene	< 5
Hexachlorocyclopentadiene	< 5
2,4,6-Trichlorophenol	< 5
2,4,5-Trichlorophenol	< 20
2-Chloronaphthalene	< 5
2-Nitroaniline	< 20
Dimethylphthalate	< 5
Acenaphthylene	< 5
2,6-Dinitrotoluene	< 5
3-Nitroaniline	< 20
Acenaphthene	< 5
Benzyl alcohol*	< 5
1,2-Dichlorobenzene*	< 5
Benzoic Acid*	< 5
N-Nitrosodimethylamine*	< 5

SEMIVOLATILE ANALYTES	(ppb)
2,4-Dinitrophenol	< 20
4-Nitrophenol	< 20
Dibenzofuran	< 5
2,4-Dinitrotoluene	< 5
Diethylphthalate	< 5
4-Chlorophenyl-phenylether	< 5
Fluorene	< 5
4-Nitroaniline	< 20
4,6-Dinitro-2-methylphenol	< 20
N-Nitrosodiphenylamine	< 5
4-Bromophenyl-phenylether	< 5
Hexachlorobenzene	< 5
Pentachlorophenol	< 20
Phenanthrene	< 5
Anthracene	< 5
Di-n-butylphthalate	< 5
Fluoranthene	< 5
Pyrene	< 5
Butylbenzylphthalate	< 5
3,3'-Dichlorobenzidine	< 5
Benzo (a) anthracene	< 5
Chrysene	< 5
bis-(2-Ethylhexyl)phthalate	< 5
Di-n-octylphthalate	< 5
Benzo (b) fluoranthene	< 5
Benzo (k) fluoranthene	< 5
Benzo (a) pyrene	< 5
Indene (1,2,3-cd)pyrene	< 5
Dibenz (a,h) anthracene	< 5
Benzo (g,h,i) perylene	< 5
1,3-Dichlorobenzene*	< 5
Carbazole*	< 5
1,4-Dichlorobenzene*	< 5
Aroclor*	< 5

INORGANIC ANALYTES	(ppb)
Ag (Silver)	< 5
Al (Aluminum)	< 50
As (Arsenic)	< 1
Ba (Barium)	< 10
Be (Beryllium)	< 0.5
Ca (Calcium)	< 500
Cd (Cadmium)	< 1
Cf (Cyanide)	< 10
Co (Cobalt)	< 5
Cr (Chromium)	< 5
Cu (Copper)	< 5
F (Fluoride)	< 250
Fe (Iron)	< 50
Hg (Mercury)	< 0.2
K (Potassium)	< 100
Mg (Magnesium)	< 50
Mn (Manganese)	< 5
Na (Sodium)	< 5000
Ni (Nickel)	< 10
Pb (Lead)	< 1
Sb (Antimony)	< 2
Se (Selenium)	< 2
Ti (Titanium)	< 5
V (Vanadium)	< 5
Zn (Zinc)	< 10

PESTICIDE ANALYTES	(ppb)
alpha-BHC	< 0.01
beta-BHC	< 0.01
delta-BHC	< 0.01
gamma-BHC (lindane)	< 0.01
Heptachlor	< 0.01
Aldrin	< 0.01
Heptachlor epoxide	< 0.01
Endosulfan I	< 0.01
Dieldrin	< 0.02
4,4'-DDE	< 0.02
Endrin	< 0.02
Endosulfan II	< 0.02
4,4'-DDD	< 0.02
Endosulfan sulfate	< 0.02
4,4'-DDT	< 0.02
Methoxychlor	< 0.10
Endrin ketone	< 0.02
Endrin aldehyde	< 0.02
alpha-Chlordane	< 0.01
gamma-Chlordane	< 0.01
Toxaphene	< 1.0
Aroclor-1016, Aroclor-1232	< 0.20
Aroclor-1242, Aroclor-1248	< 0.20
Aroclor-1254, Aroclor-1260	< 0.20
Aroclor-1261	< 0.40
Aroclor-1262*, Aroclor-1263*	< 0.20

\*Analyte not listed as a target compound in the CMAA Directive.

Eagle-Picher Technologies Division

209 S.W. Tunnell Blvd. Miami, OK 74354

Fax (918) 540-1659




16 oz Clear Wide Mouth Jar

## *Certificate of Analysis*

Sample Container Lot #E1199044 meets or exceeds  
all QA/QC criteria established in "Specifications  
and Guidance for Obtaining Contaminant-Free Sample  
Containers".

The full Documentation Package is available from  
Eagle-Picher Environmental Services.

Verified by:

*Jul. Shepherd* 

Date :

*8-6-91*

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**ENVIRONMENTAL SERVICES**

36 B. J. TUNNELL BLVD. EAST • MIAMI, OKLAHOMA 74354-3300 • (800) 331-7425